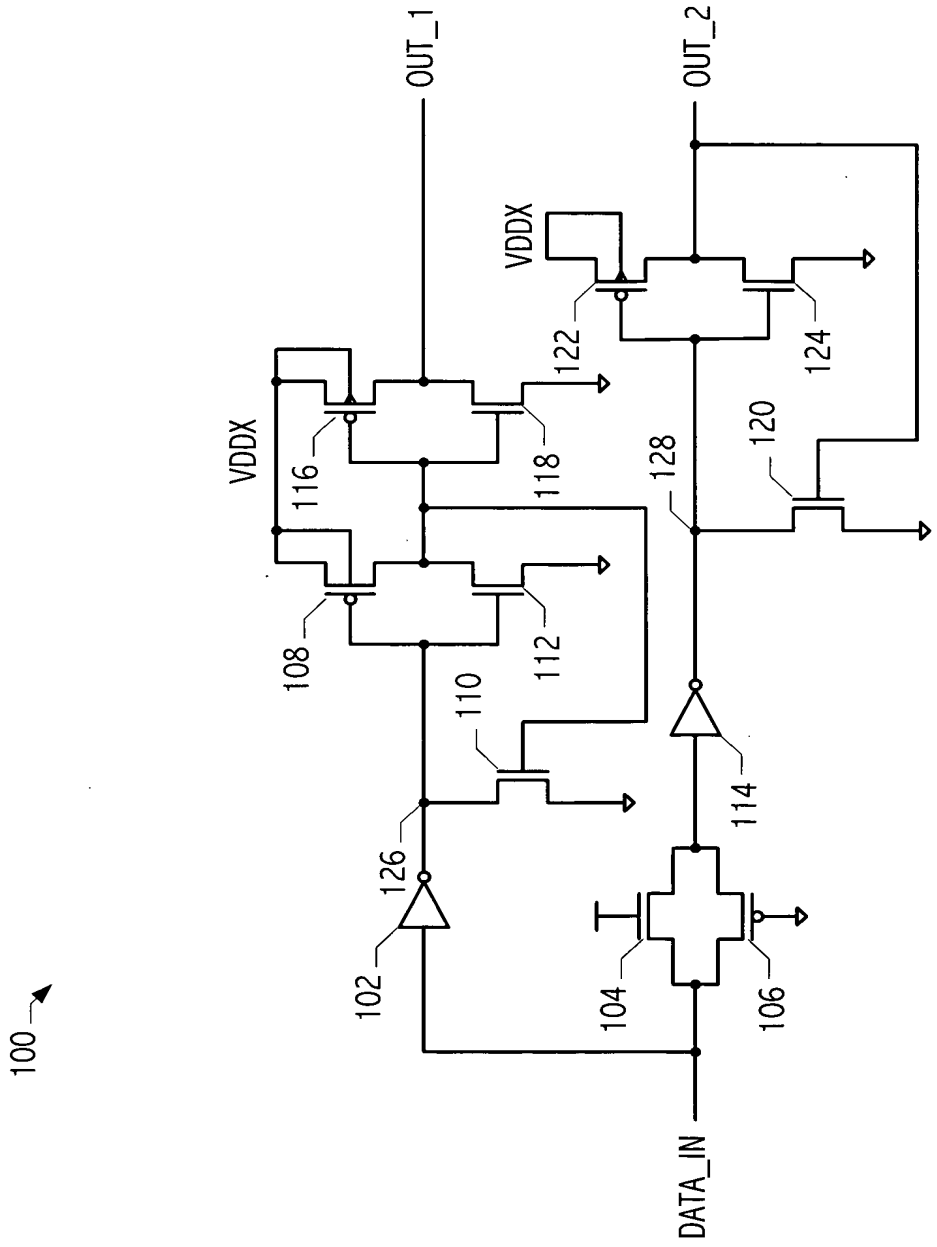
100
OUT_1
OUT_2
VDDX
VDDX
102
104
106
108
110
112
114
116
118
120
122
124
126
128
DATA_IN

FIG. 1

| VDD | VDDO | DATA_IN | OUT_1 | OUT_2 |
|---|---|---|---|---|
| ACTIVE | ACTIVE | 0 | 1 | 0 |
| ACTIVE | ACTIVE | 1 | 0 | 1 |
| FAIL | ACTIVE | ------ | 0 | 1 |

FIG. 2

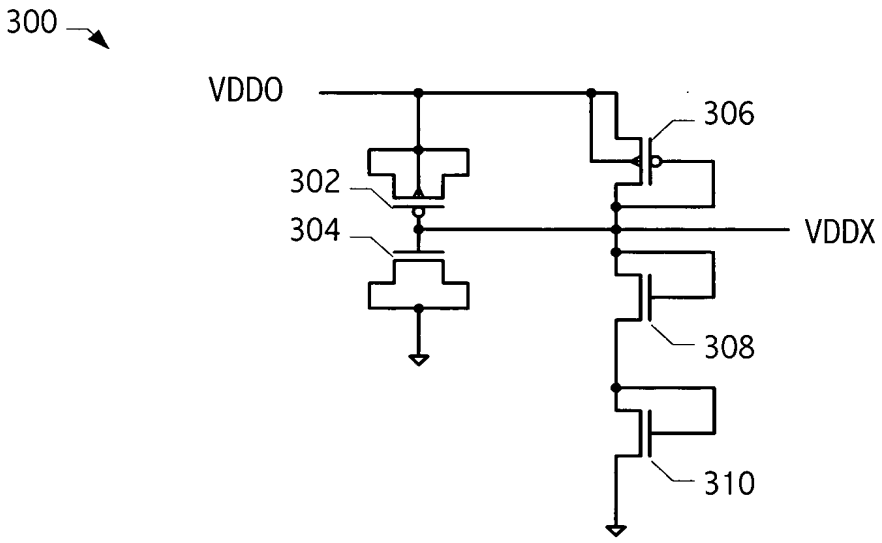


FIG. 3

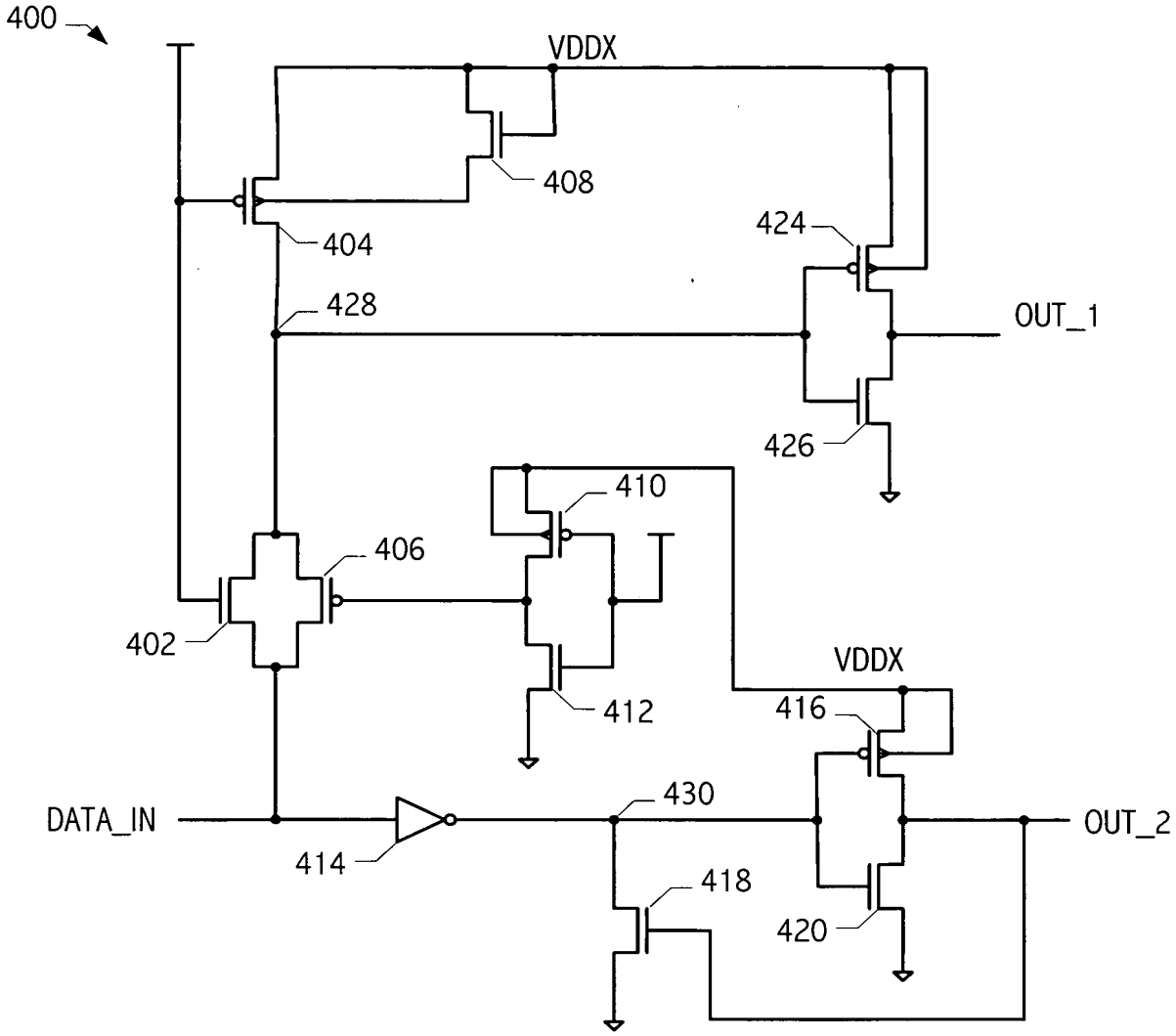
400
VDDX
408
404
424
428
OUT_1
426
410
406
402
412
VDDX
416
DATA_IN
430
OUT_2
414
418
420

FIG. 4

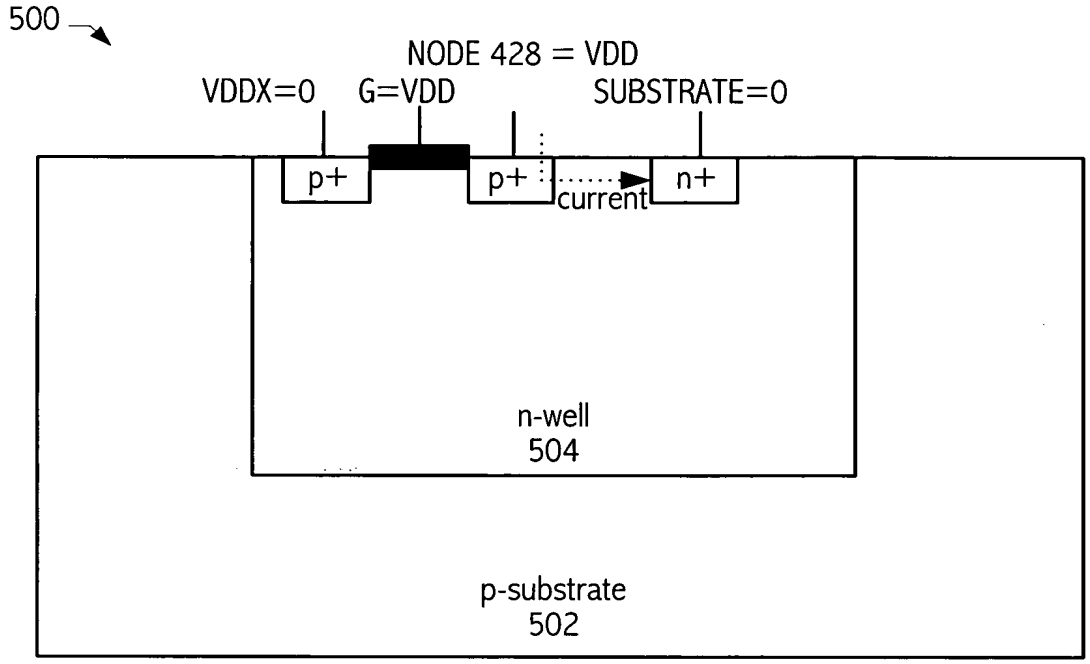
500
NODE 428 = VDD
VDDX=0
G=VDD
SUBSTRATE=0
p+
p+
current
n+
n-well
504
p-substrate
502

FIG. 5

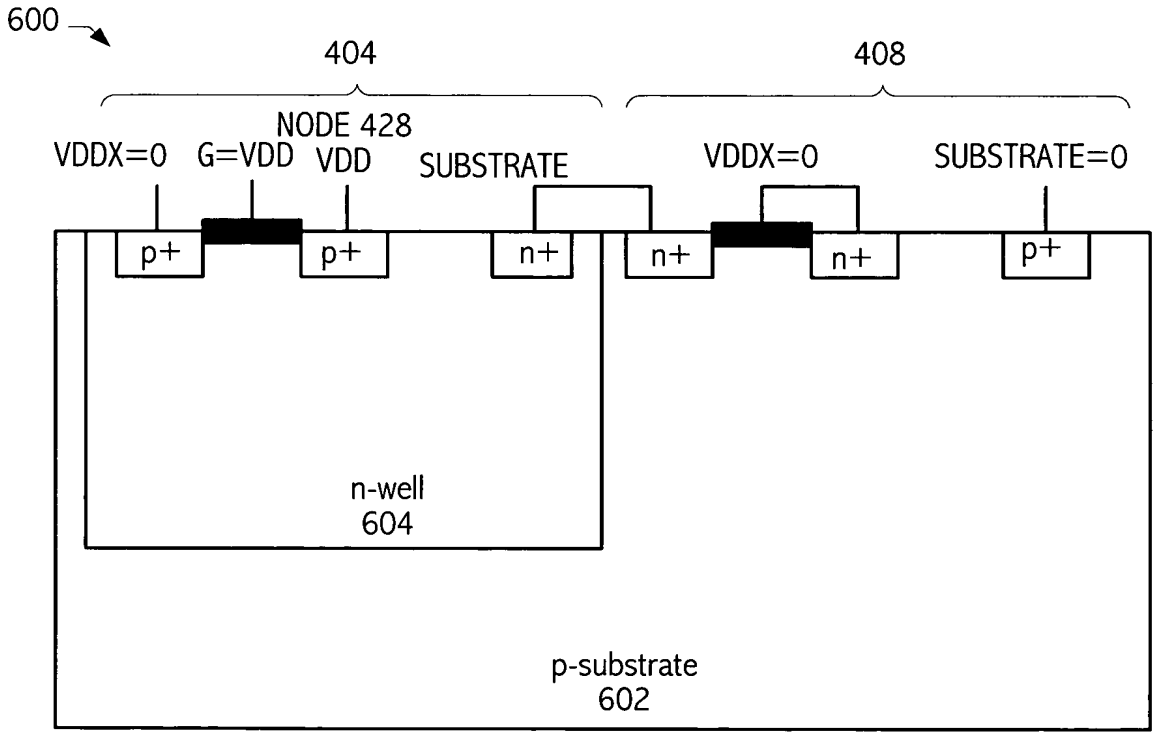
600
404
408
NODE 428
VDDX=0
G=VDD
VDD
SUBSTRATE
VDDX=0
SUBSTRATE=0
p+
p+
n+
n+
n+
p+
n-well
604
p-substrate
602

FIG. 6